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Agenda item 1
Adoption of the agenda and other organizational matters

Elections to the Committee on Energy and Natural Resources for Development

Note by the Secretary-General

Addendum

1. The Secretary-General has received the following additional nominations for election to the Committee on Energy and Natural Resources for Development:

From the Government of Costa Rica: Hernán **Bravo Trejos**
From the Government of El Salvador: Carlos Alberto **Aguilar Molina**
From the Government of Finland: Markku Juhani **Mäkelä**
From the Government of France: Bernard **Devin**
From the Government of the Netherlands: Wilhelmus C. **Turkenburg**
From the Government of Paraguay: Carlos Augusto **Saldivar**
From the Government of Sweden: Malin **Falkenmark**
From the Government of Ukraine: Dmytro Victorovych **Derogan**

2. The candidates' terms of office would begin on 1 January 1999. Biographical information on the candidates is set out in the annex below.

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Annex

Biographical information on nominees to the Committee on Energy and Natural Resources for Development

Hernán Bravo Trejos (Costa Rica)

Education

University of Costa Rica, Industrial Chemist, 1971

Profession

Businessman and politician

Primary position

Chief Executive Officer, Empaques Asépticos S.A.

Political career

General-Secretary, Democratic Renovation Party, 1979–1981; National Coordinator, United Social Christian Coalition, 1978–1981; Secretary for Municipal Affairs, United Social Christian Party (USCP), 1984–1990; member, National Directorate, USCP, 1984–1990; Minister for National Resources, Energy and Mines, 1990–1993. Congressman, Legislative Assembly, 1994–1998

Professional career

Quality Assurance Manager, Polymer of Costa Rica, 1970–1974; Plant Manager and Technical Director for the Central America Region Coca Cola Company, 1974–1988; General Manager, Empaques Asépticos S.A., 1988–1990; Board Director, Refinería Costarricense de Petróleo, 1990–1994; Board Director, Instituto Costarricense de Electricidad y Telecommunicaciones, 1998 to date; President and Chief Executive Officer, Empaques Asépticos S.A., 1993 to date.

Political interests

Environment and energy

Business/professional memberships

Member, Colegio de Químicos de Costa Rica; member, Rotary Club.

Trusteeships

Fundación Pro Zoológicos de Costa Rica; Comité de Vigilancia de los Recursos Naturales

Committees

Earth Council Institute

Carlos Alberto Aguilar Molina (El Salvador)

Education University of El Salvador
Faculty of Agricultural Sciences, 1968–1975

Degree awarded: Agricultural engineer
Plant technical expert

Additional course work

National level

Eighteen seminars and workshops on natural resources, project evaluation and legislation on water resources.

Eleven courses on natural resources, the environment, water and soil quality, flooding and catchment basins.

International level

Nine seminars, workshops and meetings on catchment basins, water resources, the Basel Convention and the Montreal Protocol.

Ten courses on natural resources, the environment, water and soil conservation, flooding and catchment basins.

Work experience

Since August 1992: Expert on water resources and catchment basins in the Ministry of the Environment and Natural Resources.

July 1992–July 1995: Planning engineer, Comisión Ejecutiva del Río Lempa (Río Lempa Executive Committee).

September 1974–June 1992: Expert on catchment basins, Chief of Unit, Chief of Division, Office of the Director of Renewable Natural Resources.

Teaching experience

Gave lectures on soil conservation, project design and evaluation and watershed management at the Universidad Evangélica de El Salvador (Evangelical University of El Salvador), Universidad Politécnica de El Salvador (Polytechnic University of El Salvador, and the Instituto Tecnológico Centroamericano (Central American Institute of Technology).

Markku Juhani Mäkelä (Finland)

Education

Philosophy candidates, University of Helsinki, 8 May 1969; major subjects geology and mineralogy

Cum laude approbatur in geophysics, University of Helsinki, 25 May 1970

Licentiate of Philosophy (excellent), University of Helsinki, 26 October 1972

Doctor of Philosophy (magna cum laude approbatur), University of Helsinki, 7 May 1974

Declared competent to hold professorship of economic geology at Helsinki University of Technology, 15 September 1981

Professional experience

Research Director, Operative Issues, Geological Survey of Finland, 1 July 1994–present

Technical Manager, United Nations Revolving Fund for Natural Resources Exploration, 1991–1994

Operations Supervisor, United Nations Revolving Fund for Natural Resources Exploration, 1988–1991

Manager, Regional Office of Western Finland, Outokumpu Oy, Exploration Department, 1982–1988

Also served as an expert with Outokumpu Oy's Foreign Mining Projects section, travelling to Australia in 1985 and to the Philippines, Indonesia, Australia and the Solomon Islands in 1986 to assess mineral prospects and mine projects

Head, Outokumpu Project, Outokumpu Oy, Exploration Department, 1979–1982

On 1 October 1979, the Exploration Department of Outokumpu Oy launched a major exploration project in North Karelia in the area covered by the Outokumpu Association. As head of the project was responsible for its success with an annual budget of approximately Fmk 6 million. The project discovered the Kylylahti Cu, Co, Zn prospect

Technical Superintendent, Helsinki University of Technology, 1973–1979

Headed the Lapland sulphur isotope research project under the Ministry of Trade and Industry from March 1974 to December 1976 and the North Finland sulphur isotope project, also under the Ministry of Trade and Industry, from January to December 1977

Appointed by the Ministry of Trade and Industry, served as secretary of the State Ore Committee from November 1977 to May 1978

Scientific activities

Lecturer in Economic Geology, Helsinki University of Technology, June 1977–May 1982

Secretary of the organizing committee of the "Metallogeny of the Baltic Shield" symposium set up under the auspices of the Academy of Finland, October 1976–June 1978

Member of the working group on a textbook on ore geology set up by the Finnish Geological society, February–December 1977

Member of the geological committee of the Finnish Association of Mining and Metallurgical Engineers, April 1978–March 1980

Secretary General of the "Metallogeny of the Baltic Shield: Helsinki Symposium 1978", 12–21 June 1978

Expert at the Helsinki University of Technology, January–December 1978

Fixed-term researcher at the Helsinki University of Technology, January–December 1979

Invited lecturer at the Department of Geology and Mineralogy of the University of Turku, autumn term 1980

Bernard Devin (France)

Principal qualifications

Bernard Devin has quite exceptional experience in the development of solar energy and its applications, going back to the FAO Conference in Rome in 1961.

His experience with the developing countries began in the Office of the Atomic Energy Commission in 1975 with the Franco-Egyptian (scientific and technical) solar programme, which included a joint venture in domestic solar water heaters.

In 1980 he was put in charge of the international affairs department of the institution which later became the Agency for Environment and Energy Use (Agence de l'Environnement et de la Maîtrise de l'Énergie (ADEME)). In that capacity he helped to launch energy efficiency agencies in cooperation with Tunisia, Ecuador, Spain and Portugal.

Since 1986 he has been an independent expert specializing in questions of sustainable development, with bilateral French assistance and assistance from UNDP and the World Bank. A major achievement was organizing the 1995 seminar in Marrakesh on the change of scale in decentralized rural electrification with financial assistance from France, the European Union, UNDP and the Institut de l'Énergie des Pays ayant en commun l'usage du français (IEPF). The Marrakesh Recommendations were submitted to the Commission on Sustainable Development in 1996 and adopted.

He was a member of the first United Nations committee of experts (UNCRSEED) in 1994, which proposed that a special session on energy be held in the year 2001.

He is now deeply involved in the question of energy strategies for sustainable development, and is presently heading a meting of consultation among the EU member countries, jointly with DG VIII, with a view to proposing appropriate assistance mechanisms for launching such strategies in the African, Caribbean and Pacific Group of States (ACP) in the period 2000–2025.

Education

Graduate in electrical engineering and electronics (1954) of the École Supérieure d'Électricité (ESE Radio).

Recent publications

"The financing of viable development" ("Le financement du développement viable") (Liaison Energie Francophone No. 36, 3rd quarter 1997)

"Strengthening capabilities in energy cooperation — which capabilities and how" ("Renforcement de compétences dans la coopération énergétiques — Quelles compétences et comment") (Liaison Energie Francophone No. 37, 1998)

APPLIMAR Methodology — implementation of the Marrakesh Recommendations ("APPLIMAR Methodology — Une mise en oeuvre des recommendations de Marrakech") (with M. Labrousse, to appear in Liaison Energie Francophone, 4th quarter, 1998)

Examples of professional activity

Initiative for and organization of the Marrakesh seminar (1995) on changing scale and pace in decentralized rural electrification programmes.

Carried out under the auspices of France (ADEME, Foreign Affairs), the European Union (DG XVII and DG VIII), UNDP and the IEPF, and with the participation of Spain, Germany and the World Bank (IENPD).

A meeting of more than 20 teams operating in the field on decentralized rural electrification (ERD) to examine ways and means of overcoming the barriers to the development of rural electrification on a large scale in areas where it is not economic to extend a network. Elaboration of a set of 19 Marrakesh Recommendations, which were endorsed by the Commission on Sustainable Development in 1996.

APPLIMAR — a DG XVII Study (in collaboration with ADEME/EXPLICIT)

Preparation of rules for implementing the Marrakesh Recommendations and of information documents for teaching purposes and Interview Guides for interviewing the various "participants" in the planned rural electrification programmes. Development of a semi-quantitative procedure for rating projects for the benefit of decision makers and financial backers.

Application of the procedure to four countries selected for the size of their non-electrified rural populations (Ecuador, Paraguay, Benin, Viet Nam).

Franco-Moroccan cooperation with ADEME, 1982 to 1995

The main achievement was the Rural Electrification Pilot Programme (PPER), a joint undertaking by the Moroccan Ministry of the Interior and Ministry of Energy and Mines, with Moroccan funds and French bilateral assistance. The objective of the programme was to use renewable energies to meet basic energy needs (lighting, communications) in the Atlas mountains region and in a coastal region, with billing of users being funded by public investment in the pre-financing phase.

United Nations Expert Group on New and Renewable Sources of Energy and Energy for Development (UNCRSEED)

Elected a member of the group in 1994.

Made a proposal in 1996 for special activities in the year 2001, anniversary of the Nairobi Conference on New and Renewable Sources of Energy, in the context not of the oil crisis this time but of the new international commitments arising from the United Nations Framework Convention on Climate Change and the resolutions adopted at the sessions of the Conference of the Parties (Kyoto, 1997 and Buenos Aires, 1998).

Wilhelmus C. Turkenburg (Netherlands)

Education

1971:	Master of Physics and Mathematics, University of Amsterdam, Netherlands
1976:	Doctor of Natural Sciences and Mathematics, University of Amsterdam (thesis: "Surface Layer Analysis by Medium Energy Ion Scattering")

Work experience

1980–1985:	Senior scientist and Assistant Professor, at Utrecht University
1988–present:	Professor of Science, Technology and Society at Utrecht University
1992–1993:	Professor of Environmental Science (part-time) at the Free University of Brussels, Belgium
1997–present:	Member of the Netherlands Council for Housing, Physical Planning and Environment, appointed by the Queen of the Netherlands

Awards

1996:	Greenman Award at the Third Conference on Carbon Dioxide Removal (Massachusetts Institute of Technology). This award is given "to honour important contributions toward harnessing technology so that the human race can better live in harmony with the environment".

Membership

1974–present:	Member and Chairman of the Dutch Energy Policy Research Group
1988–present:	Member of the Environmental Impact Statement Committee of the Netherlands
1989–1991:	Chairman of the 1989 and the 1991 Netherlands Solar Energy Conference
1989–1993:	Member of the Working Group on Renewable Energy Sources of the World Energy Council, and Chairman of the Subcommittee on Wind Energy of the World Energy Council
1990–1992:	Chairman of the Programme Committee of the First International Conference on Carbon Dioxide Removal (ICCDR-I), Amsterdam, March 1992
1992–1994:	Consultant of the World Bank for solar photovoltaics (Global Environment Facility)
1992–1993:	Member of the Scientific Committee of the Second International Conference on Carbon Dioxide Utilization (ICCDU-II), Bari, Italy, September 1993
1993–present:	Member/Vice-Chairman/Rapporteur of the United Nations Committee on New and Renewable Sources of Energy and on Energy for Development
1993–1994:	Member of the Programme Committee of the Second International Conference on Carbon Dioxide Removal (ICCDR-II), Kyoto, Japan, October 1994
1993–1994:	Member of the Programme Committee of the International Conference on Climate Change Research, Maastricht, Netherlands, December 1994

1993–1995:	Member/Lead author of the Working Group on Energy Supply Mitigation Options of the Intergovernmental Panel on Climate Change (IPPC)
1994–1995:	Member of the Programme Committee of the Third International Conference on Carbon Dioxide Utilization (ICCDU-III), University of Oklahoma, United States of America, April/May 1995
1997–present:	Member of the Council for Housing, Physical Planning and Environment of the Netherlands
1997:	Rapporteur of the United Nations Expert Workshop entitled "Fostering the Linkage between Energy and Sustainable Development within the International Institutions", Vienna, January 1997
1997–present:	Member of the Programme Committee of the Fourth International Conference on Greenhouse Gas Control Technologies (GHGT-4), Interlaken, Switzerland, August/September 1998
1998:	Scientific Director of the Utrecht Energy Research Centre

Carlos Augusto Saldivar (Paraguay)

Education

University studies

Faculty of Law and Social Sciences of the National University of Asunción.

Post-university studies

Tax law; international public law; international organizations; Paraguay National War College.

Profession

Lawyer, practising since 1953, interrupted by periods of public service.

Prior parliamentary activities

Member of the House of Representatives; National Senator; Chairman of the Foreign Relations and International Affairs Committee; Chairman of the Committee on Constitutional Affairs and National Defence; member of the Committee on Legislation and Codification and of the Committee on Petitions, Powers and Rules.

Prior international parliamentary activities

Member of the Inter-Parliamentary Council of the Inter-Parliamentary Union; representative to the Latin American parliament; member of various committees of the Latin American Parliament; Vice-President elect of the Latin American Parliament.

Current parliamentary activity

Member of the Advisory Council of the Ministry of Foreign Affairs (1993–1998).

Consultant on international relations

Member of the Advisory Council of the Ministry of Foreign Affairs (1993–1998).

Representation of Itaipú Binational

Representative of the Ministry of Foreign Affairs at Binational Itaipú (since September 1993; previously 1973–1983).

Prior public offices held

Minister for Foreign Affairs; State Counsellor; Assistant Secretary for Foreign Affairs; Director of various departments within the Ministry of Foreign Affairs; Secretary, Paraguayan Embassy, Washington, D.C.

Prior advisory positions

Member of the National Advisory Council on Boundaries; Legal Adviser to the Ministry of Foreign Affairs; Legal Advisor to the National Boundary Demarcation Committee; Legal Advisor to the Internal Revenue Service of the Ministry of Finance and Legal Advisor to the Department of Civil Aeronautics.

Participation in international congresses and conferences

Member and Chairman of Paraguayan delegations to: the United Nations; the Organization of American States; the Latin American Integration Association; and the Latin American Economic System.

International negotiations

Representative of the Government of Paraguay in the negotiations with Brazil and Argentina, respectively, for the joint development of shared water resources in the Paraná river (Itaipú and Yacyretá treaties, 1973); in the tripartite negotiations concerning the Paraná river (Argentina, Brazil and Paraguay, 1979); and for the signing of the treaty on freedom of navigation with the Argentine Republic (1967).

Studies in international law

Member of the National Commission on the Codification of International law.

Teaching experience

Faculty of Law and Social Sciences of the National University of Asunción; National War College of Paraguay; Diplomatic and Consular Academy of the Ministry of Foreign Affairs of Paraguay.

International arbitration

Member of the Paraguayan National Group of the Permanent Court of Arbitration, The Hague; member of the arbitration tribunal for the settlement of disputes within the Southern Cone Common Market (MERCOSUR).

Professional associations

Member of the Colegio de Abogados del Paraguay; member of the Instituto Paraguayo de Derecho Internacional; member of the Asociación Paraguaya de Derecho Tributario; member of the Instituto Hispano-Luso-Americano de Derecho Internacional; member of the Inter-american Bar Association; member of the International Association for Water Law.

Malin Falkenmark (Sweden)

Professor Malin Falkenmark received her education at Uppsala University, Sweden. In her PH. Lic. she specialized in hydrology with a thesis in 1963. In 1975 she was awarded Ph.D. Honoris Causa at Linköping University.

For many years Prof. Falkenmark worked as a hydrologist at the Swedish Meteorological and Hydrological Institute in Stockholm. Since 1965 she has served as Scientific Secretary and later also Executive Member of the Committee for Hydrology at the Natural Science Research Council, Stockholm, where, in 1986, she received a personal chair as Professor of Applied and International Hydrology. Prof. Falkenmark has served as an expert in several international and Swedish governmental committees. Since 1993 she has been a member of the United Nations Committee on Natural Resources.

She is the Senior Scientist at the Stockholm International Water Institute and Chair of the Scientific Programme Committee for the Stockholm Water Symposium, an annual meeting on global water issues convened each August to develop practical solutions and strategies that will help to alleviate the world water crisis.

Prof. Falkenmark is an outstanding environmental scientist and synthesizer. She is one of a small group of analysts of large-scale global and regional water problems whose work with broad perspectives has been instrumental in raising the profile of water issues internationally. She takes a geographical approach, involving both natural and social science in her broad-scale analyses.

Her work has resulted in an increased interest in applying a holistic view with respect to the complex hydrological processes, in which the socio-economic and the environmental aspects are added to the hydrological processes.

Much of Prof. Falkenmark's work deals with the problem of water scarcity in developing countries. She showed early on that the number of individuals that the society can successfully support depends on many factors, among which are climate, patterns of water use, technology used and water management capability. She has also claimed that population growth drives countries with low per capital water availability towards a water barrier, which will make it increasingly difficult to satisfy further demands for water.

Prof. Falkenmark's achievements in comparative hydrology are outstanding. She was the first scientist to demonstrate what incorrect and unusable conclusions may arise from applying results obtained from the temperate zone analyses to other climatic zones. Hydrological predictions are often not transferable from one region to another. This is an extremely important discovery that will seriously question the benefits of many scientific and technical assistance projects to developing countries.

Prof. Falkenmark challenged the Brundtland Commission in 1987 since it grossly overlooked global water issues. She has demonstrated that water should have the same priority as or a higher priority than global warming, ozone depletion, biodiversity and forestry.

In an 18 August acceptance speech in Helsinki, Finland, when she received the 1998 International Hydrology Prize, Professor Falkenmark said: "My ambition has been to get scientists in other fields like ecology and social sciences to understand fundamental hydrological phenomena and processes; in other words, to realize that one can never cheat the water cycle."

She also issued a call to action for hydrologists: "Due to the central role of the water cycle for life on this planet, hydrologists are crucial for attacking both the pollution-related problems that are already with us, and the life support problems that we can foresee when we are to feed a world population expanding with some 80 million people every year well into the next century."

Dmytro Victorovych Derogan (Ukraine)

Education

1965: Kiev Civil Engineering Institute, specializing in gas heating supply and ventilation

Professional experience

Chief, Department of Energy Conservation Strategies, Science and Non-traditional Energy Resources, State Committee of Ukraine for Energy Conservation

1993–1995: Deputy Chief of the Department, State Committee of Ukraine for the Oil and Gas Industry

1991–1993: Chief, Technical Laboratory, Research Institute of Special Construction

December 1967–March 1991: Senior Engineer, Researcher and Chief of Laboratory, Kiev State Institute of Experimental Design

February–December 1967: Senior Engineer, State Institute of Town-Planning

Academic activities

Ph.D. specializing in gas heating supply, air ventilation, acoustics and lighting techniques

Senior Research Officer and Prize Laureate of the Council of Ministers

Author of 48 publications